



1/29

SEQUENCE LISTING

<110> KUROKAWA, Masato  
NAKAMURA, Hiroaki

<120> Wound dressing for accelerating epidermal regeneration

<130> 292US

<160> 49

<170> PatentIn version 3.1

<210> 1

<211> 3

<212> PRT

<213> Homo sapiens

<400> 1

Arg Gly Asp

1

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<400> 2

Ile Lys Val Ala Val

1

5

<210> 3

<211> 5

<212> PRT

<213> Homo sapiens

<400> 3

Tyr Ile Gly Ser Arg

1

5

<210> 4  
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 <213> Artificial Sequence

<220>  
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<400> 4

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 1 5 10

<210> 5  
 <211> 40  
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<220>  
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<400> 5

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 1 5 10 15

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 20 25 30

Gly Ala Gly Ala Gly Ala Gly Ala  
 35 40

<210> 6  
 <211> 160  
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<220>  
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&lt;400&gt; 6

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 1 5 10 15

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 20 25 30

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 35 40 45

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 50 55 60

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 65 70 75 80

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 85 90 95

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 100 105 110

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 115 120 125

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 130 135 140

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 145 150 155 160

&lt;210&gt; 7

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; auxiliary amino acid sequence (Y)

&lt;400&gt; 7

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser

1

5

10

&lt;210&gt; 8

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; auxiliary amino acid sequence (Y)

&lt;400&gt; 8

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala  
 1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala  
 20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
 35 40 45

Gly Ala Gly Ala Gly Ser  
 50

&lt;210&gt; 9

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; auxiliary amino acid sequence (Y)

&lt;400&gt; 9

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala  
 1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala  
 20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser

35	40	45
Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala
50	55	60
Gly Ser Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala Gly Ser	Gly Ala
65	70	75 80
Gly Ala Gly Ser	Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ser
85	90	95
Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala
100	105	110
Gly Ser Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala Gly Ser	Gly Ala
115	120	125
Gly Ala Gly Ser	Gly Ala Gly Ser	Gly Ala Gly Ser
130	135	140
Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala
145	150	155 160
Gly Ser Gly Ala Gly Ala Gly Ser	Gly Ala Gly Ala Gly Ser	Gly Ala
165	170	175
Gly Ala Gly Ser		
180		

<210> 10  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 10

Gly Ala Gly Ala Gly Tyr	Gly Ala Gly Ala Gly Tyr
1	5 10

<210> 11  
 <211> 54  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 11

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala  
 1 5 10 15

Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala  
 20 25 30

Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr  
 35 40 45

Gly Ala Gly Ala Gly Tyr  
 50

<210> 12  
 <211> 180  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 12

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala  
 1 5 10 15

Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala  
 20 25 30

Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr  
 35 40 45

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala

50		55		60
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala				
65		70		75
				80
Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr				
	85		90	95
Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala				
	100		105	110
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala				
	115		120	125
Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr				
	130		135	140
Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala				
	145		150	155
				160
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala				
	165		170	175
Gly Ala Gly Tyr				
	180			

<210> 13  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 13

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
1                      5                      10

<210> 14  
 <211> 54  
 <212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 14

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val  
1 5 10 15

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala  
20 25 30

Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr  
35 40 45

Gly Ala Gly Val Gly Tyr  
50

<210> 15

<211> 180

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 15

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val  
1 5 10 15

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala  
20 25 30

Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr  
35 40 45

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val  
50 55 60

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala  
65 70 75 80



Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr  
                             85                            90                            95

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val  
                             100                            105                            110

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala  
                             115                            120                            125

Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr  
                             130                            135                            140

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val  
                             145                            150                            155                            160

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala  
                             165                            170                            175

Gly Val Gly Tyr  
                             180

<210> 16

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 16

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val  
                             1                            5                            10

<210> 17

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 17

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr  
1 5 10 15

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala  
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val  
35 40 45

Gly Ala Gly Tyr Gly Val  
50

<210> 18

<211> 180

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 18

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr  
1 5 10 15

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala  
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val  
35 40 45

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr  
50 55 60

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala  
65 70 75 80

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val  
85 90 95

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr  
                     100                    105                    110

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala  
                     115                    120                    125

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val  
                     130                    135                    140

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr  
                     145                    150                    155                    160

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala  
                     165                    170                    175

Gly Tyr Gly Val  
                     180

<210> 19

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 19

Asp Gly Gly Ala Ala Ala Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala  
   1                    5                    10                    15

Ala Ala Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala  
                     20                    25                    30

Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Gly Gly Ala  
                     35                    40                    45

<210> 20

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 20

Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly  
1 5 10 15

Gly Ala

<210> 21

<211> 72

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 21

Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly  
1 5 10 15

Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
20 25 30

Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala  
35 40 45

Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala  
50 55 60

Ala Ala Ala Ala Ala Gly Gly Ala  
65 70

<210> 22

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 22

Gly Val Pro Gly Val Gly Val Pro Gly Val  
1 5 10

<210> 23

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 23

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
1 5 10 15

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
20 25 30

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
35 40 45

Gly Val  
50

<210> 24

<211> 200

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 24

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
1 5 10 15

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
20 25 30

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
50 55 60

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
65 70 75 80

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
85 90 95

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
100 105 110

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
115 120 125

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
130 135 140

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
145 150 155 160

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
165 170 175

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
180 185 190

Pro Gly Val Gly Val Pro Gly Val  
195 200

<210> 25

<211> 10

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> auxiliary amino acid sequence (Y)

<400> 25

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
1 5 10

&lt;210&gt; 26

<211> 40

<212> PRT

### <213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 26

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
1                5                10                15

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
          20                        25                               30

Gly Gly Gly Gly Gly Gly Gly Gly  
35 40

&lt;210&gt; 27

<211> 160

&lt;212&gt; PRT

### <213> Artificial Sequence

$\langle 220 \rangle$

<223> auxiliary amino acid sequence (Y)

<400> 27

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
1                5                10                15

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly

$\langle 210 \rangle$	28
$\langle 211 \rangle$	10
$\langle 212 \rangle$	PRT
$\langle 213 \rangle$	Artificial Sequence

<220>  
<223> auxiliary amino acid sequence (Y)

<400> 28

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10

<210>	29
<211>	40
<212>	PRT





Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
                   100                  105                  110

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
                   115                  120                  125

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
                   130                  135                  140

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
                   145                  150                  155                  160

<210> 31

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 31

Gly Gly Ala Gly Gly Ala Gly Gly Ala  
   1                  5

<210> 32

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 32

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly  
   1                  5                  10                  15

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly  
                   20                  25                  30

Ala Gly Gly Ala  
35

<210> 33  
<211> 180  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> auxiliary amino acid sequence (Y)

<400> 33

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly  
1 5 10 15

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly  
20 25 30

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala  
35 40 45

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly  
50 55 60

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly  
65 70 75 80

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala  
85 90 95

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly  
100 105 110

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly  
115 120 125

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala  
130 135 140

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly  
145 150 155 160

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly  
                                   165                                  170                                  175

Ala Gly Gly Ala  
                                   180

<210> 34  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 34

Gly Val Gly Val Pro Gly Val Gly Val Pro  
 1                                  5                                  10

<210> 35  
 <211> 50  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 35

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1                                  5                                  10                                  15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
                                   20                                  25                                  30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
                                   35                                  40                                  45

Val Pro  
                   50

<210> 36  
 <211> 200  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 36

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 50 55 60

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 65 70 75 80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 85 90 95

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 100 105 110

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 115 120 125

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 130 135 140

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 145 150 155 160

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 165 170 175

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
                   180                  185                  190

Gly Val Pro Gly Val Gly Val Pro  
           195                  200

<210> 37  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 37

Gly Pro Pro Gly Pro Pro Gly Pro Pro  
 1                  5

<210> 38  
 <211> 36  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 38

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly  
 1                  5                  10                  15

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro  
           20                  25                  30

Pro Gly Pro Pro  
           35

<210> 39  
 <211> 180  
 <212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 39

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly  
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro  
20 25 30

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro  
35 40 45

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly  
50 55 60

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro  
65 70 75 80

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro  
85 90 95

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly  
100 105 110

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro  
115 120 125

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro  
130 135 140

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly  
145 150 155 160

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro  
165 170 175

Pro Gly Pro Pro  
180

<210> 40  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 40

Gly Ala Gln Gly Pro Ala Gly Pro Gly  
 1 5

<210> 41  
 <211> 45  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 41

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
 1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
 20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
 35 40 45

<210> 42  
 <211> 180  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 42



Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
 1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
 20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln  
 35 40 45

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly  
 50 55 60

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro  
 65 70 75 80

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala  
 85 90 95

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly  
 100 105 110

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala  
 115 120 125

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly  
 130 135 140

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly  
 145 150 155 160

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro  
 165 170 175

Ala Gly Pro Gly  
 180

<210> 43

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

&lt;400&gt; 43

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln  
 1 5 10 15

&lt;210&gt; 44

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; auxiliary amino acid sequence (Y)

&lt;400&gt; 44

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly  
 1 5 10 15

Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala  
 20 25 30

Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro  
 35 40 45

Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln  
 50 55 60

&lt;210&gt; 45

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; auxiliary amino acid sequence (Y)

&lt;400&gt; 45

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly  
 1 5 10 15

Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala

20	25	30
Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro		
35	40	45
Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly		
50	55	60
Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala		
65	70	75
Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro		
	85	90
Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly		
	100	105
Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser		
	115	120
Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln		
	130	135
Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly		
	145	150
Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala		
	165	170
Pro Gly Leu Gln		
180		

&lt;210&gt; 46

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; auxiliary amino acid sequence (Y)

&lt;400&gt; 46

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro

1                      5                      10                      15

<210> 47  
 <211> 60  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 47

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly  
 1                      5                      10                      15

Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala  
                     20                      25                      30

Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro  
                     35                      40                      45

Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro  
                     50                      55                      60

<210> 48  
 <211> 180  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> auxiliary amino acid sequence (Y)

<400> 48

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly  
 1                      5                      10                      15

Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala  
                     20                      25                      30

Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro  
                     35                      40                      45

Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly  
 50 55 60

Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr  
 65 70 75 80

Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro  
 85 90 95

Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly  
 100 105 110

Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro  
 115 120 125

Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln  
 130 135 140

Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly  
 145 150 155 160

Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu  
 165 170 175

Pro Gly Ser Pro  
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<210> 49

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 49

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Gly Gly Ala Gly Ala  
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Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser  
 20 25 30